



State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES

6 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095
(603) 271-3406 FAX (603) 271-7894



April 26, 2002

Letter of Deficiency
DAM #126.03

Mr. Thomas Dutton
City of Keene
312 Washington Street
Keene, NH 03431

RE: Goose Pond Dam, Keene

Dear Mr. Dutton:

The Department of Environmental Services, Dam Bureau (DES) consistently strives to enhance the safety of dams in New Hampshire through its dam safety program. One of the many instruments that plays a part in reaching this goal is our inspection program. DES is forwarding this correspondence to you to advise you that in accordance with RSA 482:12 and Env-Wr 502.02, an inspection of the subject dam was conducted on October 22, 2001. During this visual inspection and/or file review, the following deficiencies were observed:

Brush and small tree growth was abundant on the crest, upstream embankment, downstream embankment, and within 10 feet of the overflow spillway both upstream and downstream;

2. Historic seepage was noted at the toe of the dam adjacent to the low level outlet. Previously installed V-notch weirs have been installed and a monthly log is maintained. The seepage was measured on this date and was consistent with measurements conducted in the past (1 gallon per minute);
3. There was erosion on the left and right side of the concrete pad for the low-level outlet. It should be noted that fill was placed, in the 1970's, on top of existing riprap along the upstream embankment for the purpose of accessing the low-level outlet in this area;
4. There was debris in the outlet channel of the overflow spillway section; and
5. The EAP has been completed and tested.

DES believes that the above deficiencies can be corrected by performing the following items prior to the indicated schedule:

October 1, 2002:

1. Remove the brush and small tree growth that was abundant on the crest, upstream embankment, downstream embankment, and within 10 feet of the overflow spillway both upstream and downstream;

Letter of Deficiency

Dam #126.03

April 26, 2002

pg. 2

2. Place large sized riprap (12 inches in size) on both the left and right side of the low-level outlet section in the areas where erosion of fill, added to the upstream embankment in the late 1970's, is occurring. The riprap will eliminate the erosion in this area to maintain the access to the low-level outlet during storm events;
3. Remove the debris in the downstream channel of the overflow spillway section; and

On a Continual Basis

4. Continue to monitor the seepage at the base of the low-level outlet and submit the results to our office.

DES is requesting that you complete and submit the attached "Intent to Complete Repairs" form, within 30 days of receipt of this letter, that will provide for correction of the identified deficiencies by the date(s) indicated above. If you believe changes to the items of work or dates are necessary, please make the changes directly on the form and provide a brief explanation. We have enclosed a self addressed stamped envelope for you to return this form.

DES has verified, that with the completion and testing of the Emergency Action Plan (EAP) you are in full compliance with the September 10, 1997 LOD. Please refer to the enclosed copy for your reference.

Our intent in sending you this correspondence is to make you aware of items that DES believes warrant your attention to insure the continued safe operation of your dam. It is our hope that, through the submittal of the attached form and a commitment to keeping a well-maintained dam, you will voluntarily comply with the requested items of work. If we do not receive the intent form or a similarly adequate written reply, we will assume that you are in agreement with our findings and recommendations and DES will carry out follow-up inspections accordingly.

If you have any questions or comments regarding this Letter of Deficiency or would like to be present at future inspections, please contact me at 271-3406, or write to the Water Division at the address listed on the top of the previous page.

Sincerely,

COPY
Dale F. Guinn, P.E.
Dam Safety Engineer

Attachments DB8, DB13

cc: Gretchen Rule

Town of Keene

Certified # 7099 3400 0002 9773 6798

DFG/was/h:/safety/wendy/lod/126-03lod.doc